Amotz Agnon

List of Publications by Year
in descending order

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61 papers	3,526 citations	172457 29 h-index	138484 58 g-index
61 all docs	61 docs citations	61 times ranked	2648 citing authors

#	Article	IF	Citations
1	Long-term earthquake clustering: A 50,000-year paleoseismic record in the Dead Sea Graben. Journal of Geophysical Research, 1996, 101, 6179-6191.	3.3	329
2	Holocene Climate Variability and Cultural Evolution in the Near East from the Dead Sea Sedimentary Record. Quaternary Research, 2006, 66, 421-431.	1.7	325
3	Lake Levels and Sequence Stratigraphy of Lake Lisan, the Late Pleistocene Precursor of the Dead Sea. Quaternary Research, 2002, 57, 9-21.	1.7	320
4	Recurrence pattern of Holocene earthquakes along the Dead Sea transform revealed by varve-counting and radiocarbon dating of lacustrine sediments. Earth and Planetary Science Letters, 2004, 222, 301-314.	4.4	217
5	High-resolution geological record of historic earthquakes in the Dead Sea basin. Journal of Geophysical Research, 2001, 106, 2221-2234.	3.3	162
6	Prehistoric earthquake deformations near Masada, Dead Sea graben. Geology, 1995, 23, 695.	4.4	157
7	Crusader castle torn apart by earthquake at dawn, 20 May 1202. Geology, 1998, 26, 303.	4.4	130
8	Self-driven mode switching of earthquake activity on a fault system. Earth and Planetary Science Letters, 1999, 172, 11-21.	4.4	115
9	Geomagnetic field intensity: How high can it get? How fast can it change? Constraints from Iron Age copper slag. Earth and Planetary Science Letters, 2011, 301, 297-306.	4.4	112
10	Slip rate and locking depth from GPS profiles across the southern Dead Sea Transform. Journal of Geophysical Research, 2008, 113, .	3.3	109
11	Lithology of the long sediment record recovered by the ICDP Dead Sea Deep Drilling Project (DSDDP). Quaternary Science Reviews, 2014, 102, 149-165.	3.0	105
12	Large geomagnetic field anomalies revealed in Bronze to Iron Age archeomagnetic data from Tel Megiddo and Tel Hazor, Israel. Earth and Planetary Science Letters, 2016, 442, 173-185.	4.4	87
13	817-Year-old walls offset sinistrally 2.1 m by the Dead Sea transform, Israel. Journal of Geodynamics, 1997, 24, 11-20.	1.6	84
14	Dating large infrequent earthquakes by damaged cave deposits. Geology, 2005, 33, 261.	4.4	81
15	High-resolution stratigraphy reveals repeated earthquake faulting in the Masada Fault Zone, Dead Sea Transform. Tectonophysics, 2005, 408, 101-112.	2.2	67
16	A viscoelastic damage rheology and rate- and state-dependent friction. Geophysical Journal International, 2005, 161, 179-190.	2.4	64
17	Earthquake supercycles and Long-Term Fault Memory. Tectonophysics, 2020, 774, 228289.	2.2	55
18	Evidence from gabbro of the Troodos ophiolite for lateral magma transport along a slow-spreading mid-ocean ridge. Nature, 2001, 409, 72-75.	27.8	51

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19	Rock dilation, nonlinear deformation, and pore pressure change under shear. Earth and Planetary Science Letters, 2005, 237, 577-589.	4.4	50
20	Soft sediment deformation by Kelvin Helmholtz Instability: A case from Dead Sea earthquakes. Earth and Planetary Science Letters, 2005, 236, 497-504.	4.4	48
21	Testing the accuracy of absolute intensity estimates of the ancient geomagnetic field using copper slag material. Earth and Planetary Science Letters, 2010, 290, 201-213.	4.4	46
22	Variable behavior of the Dead Sea Fault along the southern Arava segment from GPS measurements. Comptes Rendus - Geoscience, 2015, 347, 161-169.	1.2	46
23	Dyke propagation with distributed damage of the host rock. Earth and Planetary Science Letters, 1999, 165, 177-185.	4.4	45
24	Intrabasin paleoearthquake and quiescence correlation of the late Holocene Dead Sea. Journal of Geophysical Research, 2011, 116, .	3.3	45
25	Thermodynamic and elastic properties of a many-body model for simple oxides. Physical Review B, 1990, 41, 7755-7766.	3.2	41
26	Late Quaternary faulting and subsidence in the central Dead Sea basin. Israel Journal of Earth Sciences, 2006, 55, 18-31.	0.3	38
27	Indications for control of the Iceland plume on the Eoceneâ€“Oligocene â€œgreenhouseâ€“icehouseâ€• climate transition. Earth and Planetary Science Letters, 2008, 265, 33-48.	4.4	34
28	Quaternary transform kinematics constrained by sequence stratigraphy and submerged coastline features: The Gulf of Aqaba. Earth and Planetary Science Letters, 2008, 271, 109-122.	4.4	34
29	New perspectives on interdisciplinary earth science at the Dead Sea: The DESERVE project. Science of the Total Environment, 2016, 544, 1045-1058.	8.0	34
30	Pre-Instrumental Earthquakes Along the Dead Sea Rift. Modern Approaches in Solid Earth Sciences, 2014, , 207-261.	0.3	30
31	Radial clastic dykes formed by a salt diapir in the Dead Sea Rift, Israel. Terra Nova, 2002, 14, 288-294.	2.1	29
32	An improved evaluation of the seismic/geodetic deformation-rate ratio for the Zagros Fold-and-Thrust collisional belt. Geophysical Journal International, 2018, 213, 194-209.	2.4	29
33	A 220,000-year-long continuous large earthquake record on a slow-slipping plate boundary. Science Advances, 2020, 6, .	10.3	28
34	Paleomagnetic field intensity derived from non-SD: Testing the Thellier IZZI technique on MD slag and a new bootstrap procedure. Earth and Planetary Science Letters, 2011, 310, 213-224.	4.4	27
35	Localised and distributed deformation in the lithosphere: Modelling the Dead Sea region in 3 dimensions. Earth and Planetary Science Letters, 2011, 308, 172-184.	4.4	26
36	Offshore Evidence for an Undocumented Tsunami Event in the â€˜Low Riskâ€™ Gulf of Aqaba-Eilat, Northern Red Sea. PLoS ONE, 2016, 11, e0145802.	2.5	24

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37	Precision of Calibrated Radiocarbon Ages of Historic Earthquakes in the Dead Sea Basin. Radiocarbon, 2001, 43, 1371-1382.	1.8	23
38	Archaeological record of earthquake ruptures in Tell Ateret, the Dead Sea Fault. Tectonics, 2015, 34, 2105-2117.	2.8	22
39	Uâ€“Th dating of calcite corals from the Gulf of Aqaba. Geochimica Et Cosmochimica Acta, 2017, 198, 285-298.	3.9	22
40	Strontium isotopes in discordant dolomite bodies of the Judea Group, Dead Sea basin. Israel Journal of Earth Sciences, 2002, 51, 219-224.	0.3	21
41	Evolution of fringing reefs: space and time constraints from the Gulf of Aqaba. Coral Reefs, 2005, 24, 165-172.	2.2	20
42	Fire and collapse: Untangling the formation of destruction layers using archaeomagnetism. Geoarchaeology - an International Journal, 2018, 33, 513-528.	1.5	19
43	Hotspot activity and plume pulses recorded by geometry of spreading axes. Earth and Planetary Science Letters, 2001, 189, 31-47.	4.4	17
44	A low-velocity lamella inDâ€³. Geophysical Research Letters, 1998, 25, 2885-2888.	4.0	16
45	Paleoclimatology of the Levant from Zalmon Cave speleothems, the northern Jordan Valley, Israel. Quaternary Science Reviews, 2019, 220, 142-153.	3.0	16
46	Rotation about an inclined axis: Three dimensional matrices for reconstructing paleomagnetic and structural data. Journal of Structural Geology, 1995, 17, 777-782.	2.3	14
47	A New Approach to Constrain the Seismic Origin for Prehistoric Turbidites as Applied to the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2020GL090947.	4.0	14
48	Holocene hydrological events and human induced environmental changes reflected in a southeastern Mediterranean fluvial archive. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 468, 263-275.	2.3	13
49	Assessment of the effect of earthquake activity on regional vegetation â€” High-resolution pollen study of the Ein Feshka section, Holocene Dead Sea. Review of Palaeobotany and Palynology, 2009, 155, 42-51.	1.5	11
50	Resolving a historical earthquake date at Tel Yavneh (central Israel) using pollen seasonality. Palynology, 2016, 40, 145-159.	1.5	11
51	High pressure shear moduliâ€”A many body model for oxides. Geophysical Research Letters, 1988, 15, 209-212.	4.0	10
52	Earthquake-induced barium anomalies in the Lisan Formation, Dead Sea Rift valley, Israel. Earth and Planetary Science Letters, 2009, 286, 219-229.	4.4	9
53	Paleoearthquakes as Anchor Points in Bayesian Radiocarbon Deposition Models: A Case Study from the Dead Sea. Radiocarbon, 2010, 52, 1018-1026.	1.8	9
54	Orbitalâ€•and Millennialâ€Scale Changes in Lakeâ€Levels Facilitate Earthquakeâ€Triggered Mass Failures in the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2021GL093391.	4.0	8

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55	Frictional rheology: hardening by rotation of active normal faults. Tectonophysics, 1995, 247, 239-254.	2.2	7
56	Dataâ€Driven Seismicâ€Hazard Models Prepared for a Seismic Risk Assessment in the Dead Sea Region. Bulletin of the Seismological Society of America, 2016, 106, 2584-2598.	2.3	6
57	The thermal signature of subducted lithospheric slabs at the coreâ€“mantle boundary. Earth and Planetary Science Letters, 1998, 160, 551-562.	4.4	5
58	Calibrating a new attenuation curve for the Dead Sea region using surface wave dispersion surveys in sites damaged by the 1927 Jericho earthquake. Solid Earth, 2019, 10, 379-390.	2.8	5
59	Oceanic topography and heatflow: Indications for a silent discharge of cold rock into the convecting Earth. Geophysical Research Letters, 1995, 22, 1273-1276.	4.0	4
60	Reply to â€˜â€˜Comment on â€˜Thermodynamic and elastic properties of a many-body model for simple oxidesâ€™ â€™â€™. Physical Review B, 1991, 44, 7108-7110.	3.2	0
61	Holocene sea levels at the Gulf of Aqaba, northern Red Sea. Quaternary Science Reviews, 2022, 277, 107278.	3.0	0